BXT-120

(BT-to-AV IR Extender)

ANDROID

Made for iPod iPhone iPad

Made for iPhone 5, iPhone 4S, iPhone 4
Made for iPad 3, iPad 2

Bluetooth®

Table of Contents

Introduction 3
Requirements 4
Application Software (App) installation 4
Tips for positioning your BXT-120 5
BXT-120 Operations 7
Product Overview 7
Android - Pair the BXT-120 with your Smart Phone or Tablet 8
Android - Add IR Device 12
Android - BXT-120 operation for AV Equipment 19
Android - Device Properties 19
iOS - Pair the BXT-120 with your iPhone or iPad 31
iOS - Add IR Device 34
iOS - BXT-120 operation for AV Equipment 37
iOS - Device Properties 37
FREQUENTLY ASKED QUESTIONS 44
COMPATIBILITY TEST 47
MAINTENANCE 48
TECHNICAL SPECIFICATIONS 48
CHECKING THE ACCESSORIES 48
FCC NOTICE 49
LEGAL NOTICE 49
WARNINGS 49
WARRANTY 50

BXT-120
(BT-to-AV IR Extender)
Operating Instructions

Introduction

The BXT-120 is a Bluetooth to AV IR Extender (Figure 1) and it works with any Smart Phones and Tablet (**iPhone®, iPad® or Android™ smart devices**) by translating Bluetooth control signals to AV IR control code. BXT-120 can control up to 8 AV equipment. User can set the IR code on any Smart Devices and transmit IR commands by BXT-120, or use the learning function through the simple user interface on smart devices. The cloud base IR code library supports almost every popular brand found in today's market and never outdated.

The BXT-120 supports only one active user at one time. But it allows multiple Smart Phone or Tablet connect to the BXT-120. User can enjoy fully wireless control and home automation system anywhere at home.

Figure 1 Operation diagram

Requirements

Type	Requirements
Device	Apple and Android Smart Device
Operation System (OS)	- iOS 6.x and 5.x - Android 2.2 or above
Compatible Model List	Made for iPhone 5, iPhone 4S, iPhone 4 Made for iPad 3, iPad 2
Apple and Android App	Smart URC
Screen resolution	- Supports for iOS version: iPhone 5, iPhone 4S, iPhone 4, iPad 3, iPad 2, - Supports for Android version: 800x480, 854x480, 800x600, 960x640, 976x768, 1024x600, 1024x720, 1280x720, 1232x800, 1280x800
Bluetooth	Built-in Bluetooth interface

Application Software (App) Installation

If you are using Android OS smart device, please visit to "**Google Play**" to download the **Smart URC** app.

Google Play is a trademark of Google Inc.

Android is a trademark of Google Inc.

If you are using Apple smart device, please visit to "**Apple Store®**" to download the **Smart URC** app.

Apple Store® is a trademark of Apple Inc.

iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

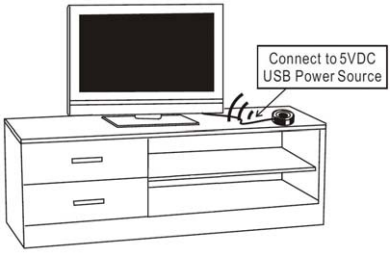
Smart URC logo

User can update the IR code library by update the "Smart URC" app.

Tips for positioning your BXT-120

Environment A

Ideally, you should position the BXT-120 on top of an open cabinet near your AV devices.

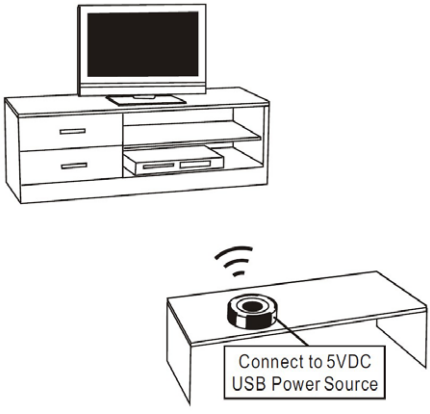


On top of an open cabinet

Environment B

If you have more than one AV devices at cabinet, you can place BXT-120 at the teapoy and aimed to the receiver of AV devices.

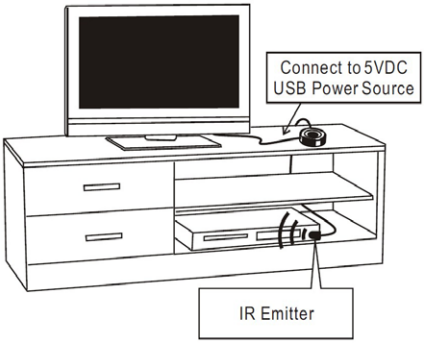
If you position your BXT-120 so that it does not have a direct line-of-sight to your AV devices, it still may be able to reach them by bouncing its signals off of walls, floors or ceilings. If your ceiling is very high, or if the back wall of the room is too far away, you might need to move the BXT-120 closer to the AV devices.



Placed at teapoy

Environment C

If you want to keep all your devices in a closed cabinet, you may need to connect an IR emitter cable to the BXT-120.



Using external IR emitter cable for a closed cabinet

BXT-120 Operations

i) Install the App to your Smart Device.
ii) Power up the BXT-120 by connecting the USB cable to an active power source 5V DC.
iii) Red LED will stay off.

Product Overview

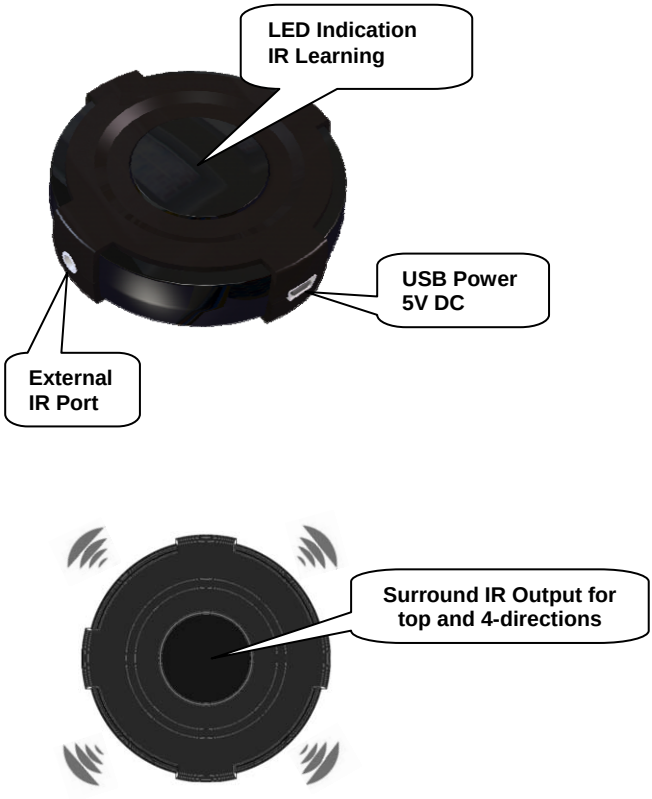
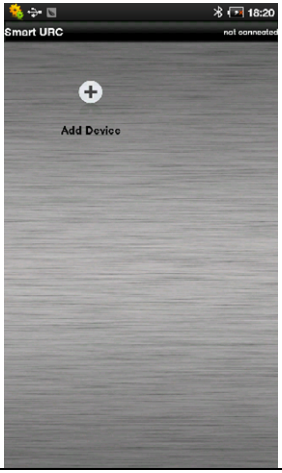
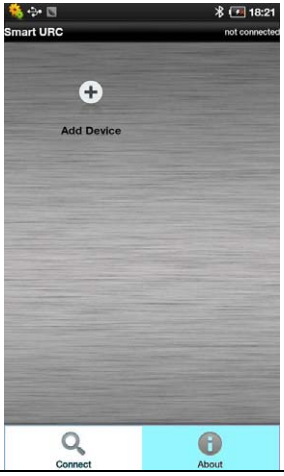
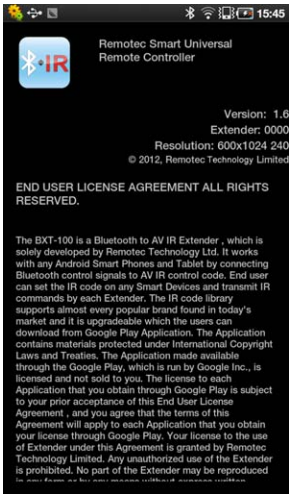
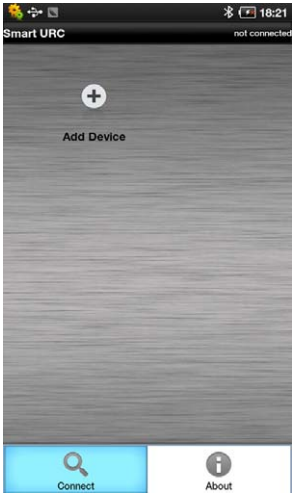


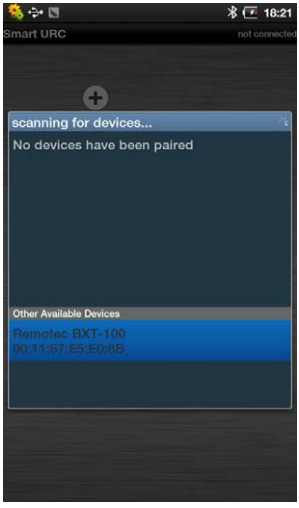
Figure 2 LED indication and IR Port of BXT-120

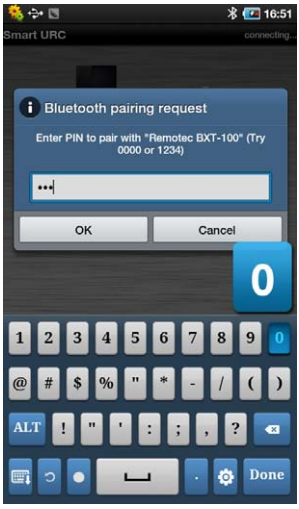
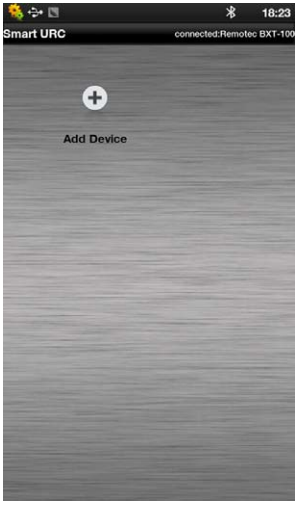
Android Smart Device

Pair the BXT-120 with your Smart Phone or Tablet

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Execute the App, below screen will be shown. 	LED stay off
2	Click “About” to check your application software version and information. 	LED stay off

		
3	Click "≡" menu button, then click "Connect". 	LED stay off

4	Click “Scan for devices”. 	LED stay off
5	Click “Remotec BXT-120” device. 	LED stay off

6	Enter PIN number to pair with BXT-120. (Try 0000 or 1234) and click “OK”. 	LED stay off
7	Now, your smart phone / tablet is connected to BXT-120. 	LED light up

Add IR Device

Add an IR Device, edit name and select device icon on Smart Phone or Tablet

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Click “Add Device” button. 	LED light up
2	Select your “Category”, “Brand” and “Code”. 	LED light up

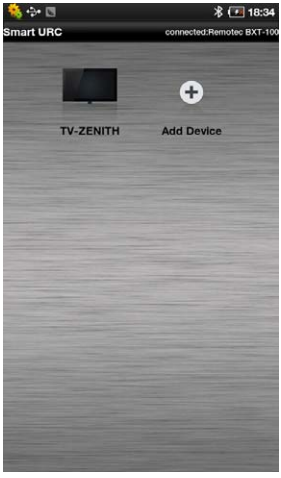
Category:

Brand:

User can use “Search” or “Test” function to select your device code.

3	**By Auto-search:** Turn on your device (e.g. TV) manually. Click “Search” button. 	LED light up
4	Click “Search” button. Once your device (e.g. TV) turns off, press stop button. 	LED light up

5	Test your device control keys. If your device responds to your activated function correctly, you have selected the right device code. Otherwise, repeat the above steps with the next available device codes until your device responds to your activated function, and most buttons work correctly. Click “Back” button to go back to previous setup menu. 	LED will flash once for each button press

6	<u>Edit the device name and display icon:</u> Click “Name” to edit the device name. Click “Device Icon” and select your corresponding device icon. Click “Finish” button to save your settings.  	LED light up

7	**By Manual Test:** Select your device code and start from higher ranking. 	LED light up

8	Click “Test” button. Test your device control keys. If your device responds to your activated function correctly, you have selected the right device code. Otherwise, repeat the above steps with the next available device codes until your device responds to your activated function, and most buttons work correctly. Click “Back” button to go back to previous setup menu. 	LED will flash once for each button press
9	Follow the above step 6 to complete the “device name” and “display icon” setup. Click “Finish” button to save your settings.	LED light up

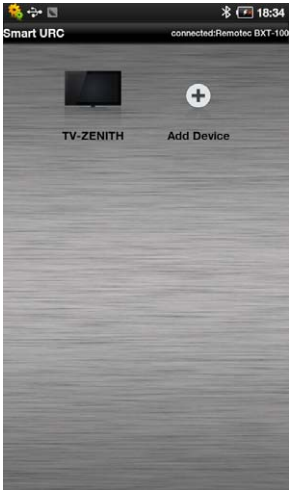
BXT-120 operation for AV Equipment

Once you paired the BXT-120 to your Smart Phone or Tablet and selected an IR device code, you have transformed your Smart Phone or Tablet as a touch-screen universal remote controller.

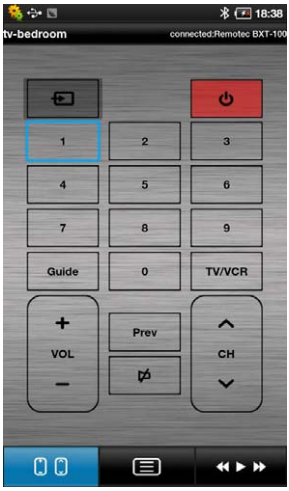
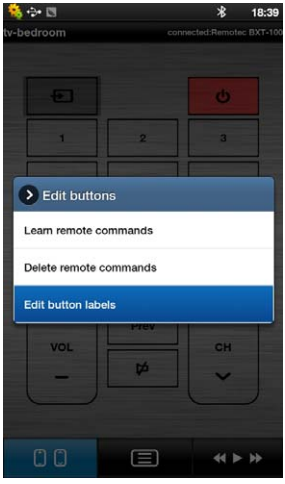
- Press a desired button on Smart Phone or Tablet which you want to transmit the command.
- BXT-120 red LED will flash once if the command is received and transmits the IR command to your appliances through the 5-directional IR emitters.

Device Properties

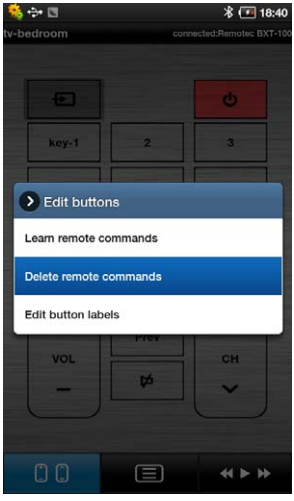
Edit device (device icon, rename device, IR learning, delete and rename button) and remove an IR Device

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Press and hold the device icon for 3 seconds. 	LED light up

2	Click “Edit device”. 	LED light up
3	<u>Edit the device name, display icon and remote buttons:</u> Click “Edit remote buttons” 	LED light up

4	Select a button which you want to edit. 	LED light up
5	Click “Edit button labels”. 	LED light up

6	Input your button name then click “OK” to confirm it. ⇓ 	LED light up

7	<u>Delete a remote button</u> Select a button which you want to delete it. 	LED light up
8	Click “Delete remote commands”. 	LED light up

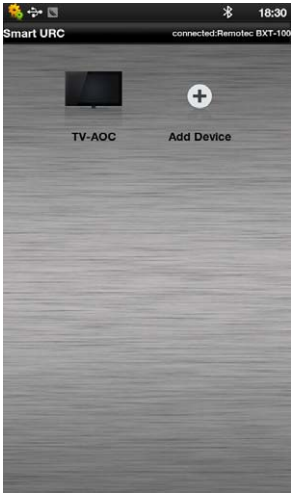
9	Click “Yes” to confirm it. ⇓ 	LED light up

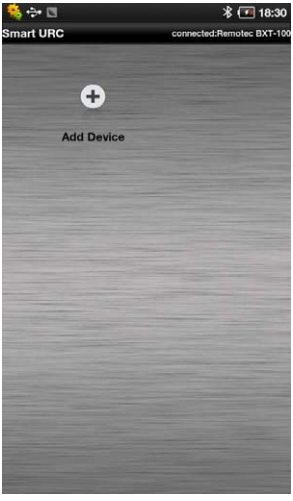
10	Learn a remote button Select a button which you want to learn the command. 	LED light up
11	Click “Learn remote commands”. 	LED light up

12	Place the BXT-120 and your device remote as shown, aimed at each other 1-3 inches apart. Click “Start” to enable the learning. 	LED stay off
13	Press and keep holding the key on your original equipment remote which you want to learn until LED flash and prompt on the screen the learning result, it may take few seconds or more depending on IR codes of your remote. 	=> LED flashes twice if the command has been learned successfully => LED flashes 6 times, it shows an error in the learning process (Adjust the position of your remote and repeat from step 12 again)

14	- Click “Test” to test the learned key, - Click “Learn” to re-start the learning if it is unsuccessful. - Click “Finish” to go back to previous menu. ⇓ When you encounter problem, check followings: ♦ Do not release key on original remote before BXT-120 return	-

	status during learning. ♦ Press the key on original remote before learning mode timeout. ♦ Keep away from incandescent light and direct sunlight during learning. ♦ Make sure IR Transmitter of your original remote alight with learning diode of BXT-120, you may also slight adjust closer or further away the distance of two devices. Some of remotes the IR transmitter in hidden behind lens and may not installed center of remote. ♦ Make sure the power is good on both devices, especially the original remote. Use fresh batteries.	
15	Click “Back” button to go back to previous setup menu. Click “Done” to go back to device menu. 	LED light up

16	<u>Remove a remote device:</u> Press and hold the device icon for 3 seconds. 	LED light up
17	Click “Remove device”. 	LED light up

18	Click “YES” to confirm it. ⇓  	LED light up

Apple Smart Device (iPhone and iPad)

Pair the BXT-120 with your iPhone or iPad

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Go to “Settings” page on your smart device and then click “Bluetooth”. 	LED stay off
2	Turn on the “Bluetooth” interface. 	LED stay off

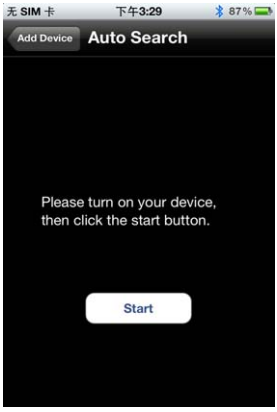
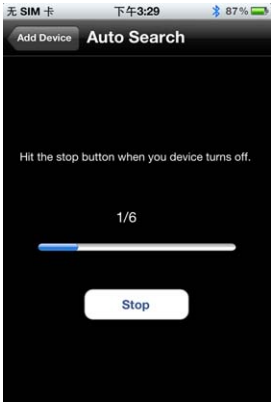
3	Select “BXT-120” and pair the unit. 	LED stay off
4	Enter PIN number “0000”to pair with BXT-120 and then click “Pair”. 	LED stay off

4	If the connection is successful, the screen will show “Connected”. ⇓ After a few seconds, it will pop up a screen and prompt you to jump to the “Smart URC” App. Please click “Allow” to open the App. 	LED light up

Add IR Device

Add an IR Device, edit name and select device icon on Smart Phone or Tablet

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Click “Add Device” button. 	LED light up
2	Select “Device icon”; Change “Device Name”; Select “Device Type”; Select “Device Brand”; Select “Device Code”; 	LED light up

	Click “Auto Search” or “Test” button to select your device code.	
3	**By Auto-search:** Turn on your device (e.g. TV) manually. Click “Auto Search” button, then click “Start” button to start Auto search.  ⇓  Once your device (e.g. TV) turns off, press stop button.	LED will flash once for each IR code
4	Test your device control keys. If your device responds to your activated function correctly, you have selected the right device code. Otherwise, repeat the above steps with the next available device	LED will flash once for each button press

	codes until your device responds to your activated function, and most buttons work correctly. Press “Use this device” button to confirm the device code. 	
5	**By Manual-search:** Select your device code and start from higher ranking. Click “Test” button. Test your device control keys. If your device responds to your activated function correctly, you have selected the right device code. Otherwise, repeat the above steps with the next available device codes until your device responds to your activated function, and most buttons work correctly. Press “Use this device” button to confirm the device code. 	LED will flash once for each button press

BXT-120 operation for AV Equipment

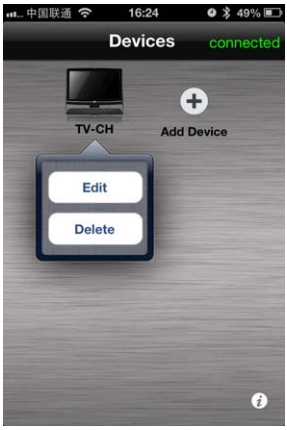
Once you paired the BXT-120 to your Smart Phone or Tablet and selected an IR device code, you have transformed your Smart Phone or Tablet as a touch-screen universal remote controller.

- Press a desired button on Smart Phone or Tablet which you want to transmit the command.
- BXT-120 red LED will flash once if the command is received and transmits the IR command to your appliances through the 5-directional IR emitters.

Device Properties

Edit device (IR learning, rename and delete remote button) and remove an IR Device

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Press and hold the device icon for 3 seconds. 	LED light up

2	Click “Edit” to edit remote buttons or click “Delete” to remove an IR device. 	LED light up
3	Select “Device icon”; Change “Device Name”; Edit “Device keys”; ⇓	LED light up

4	<u>Edit remote buttons (rename, Learning and Delete):</u> Select a button which you want to edit. i) Click “Edit” button to rename the button. ⇓	LED light up

ii) Click “Learn” button to learn the command.

(Place the BXT-120 and your device remote as shown, aimed at each other 1-3 inches apart.

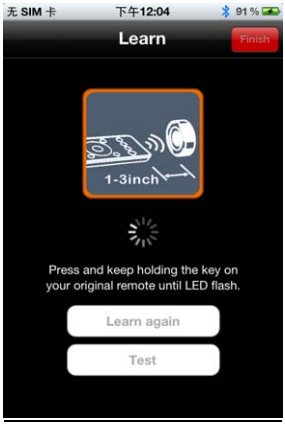
Press and keep holding the key on your original equipment remote which you want to learn until LED flash and prompt on the screen the learning result, it may take few seconds or more depending on IR codes of your remote.)

⇓

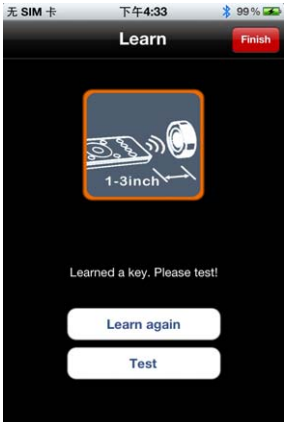
=> LED flashes twice if the command has been learned successfully

=> LED flashes 6 times, it shows an error in the learning process

(Adjust the position of your remote and repeat the learning procedure)



⇓



Click “Test” button to test the button function or click “Learn again” to re-start learning.

Click “Finish” button to go back to previous menu.

(When you encounter problem, check followings:

- Do not release key on original remote before BXT-120 return status during learning.

- Press the key on original remote before learning mode timeout.
- Keep away from incandescent light and direct sunlight during learning.
- Make sure IR Transmitter of your original remote alight with learning diode of BXT-120, you may also slight adjust closer or further away the distance of two devices. Some of remotes the IR transmitter in hidden behind lens and may not installed center of remote.
- Make sure the power is good on both devices, especially the original remote. Use fresh batteries.)

iii) Click “Delete” button to delete it.

⇓

Click “Finish” button to go back to main menu.

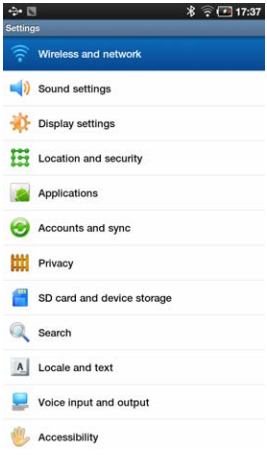
FREQUENTLY ASKED QUESTIONS

Q Why I can't upgrade the “Smart URC” on my Smart phone / Tablet?

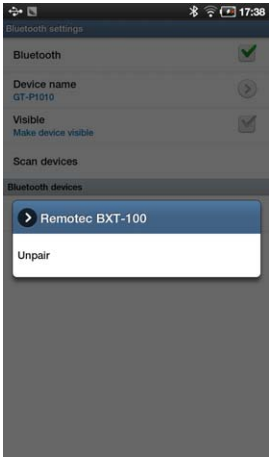
A It may have a compatibility issue as there are many Android OS versions embedded at different smart device. If this is your case, please uninstall the “Smart URC” before install or upgrade the latest version of “Smart URC”.

Q Why I can’t pair the BXT-120 with my Smart phone / Tablet?

A Your smart device may record the wrong PIN code for BXT-120. Please follow below steps to un-pair the BXT-120 then back to the Smart URC app to pair your BXT-120 again.

Step	Setup on Smart Phone or Tablet	LCD indication on BXT-120
1	Select “Wireless and network” under “Settings” menu. 	-

2	Select “Bluetooth settings”. 	-
3	Press and hold the “BXT-120” to un-pair the unit. 	-

4	Click “Unpair” to un-pair the unit.  ⇓ 	-

COMPATIBILITY TEST

Android OS Model Number	OS Version
Samsung S-III (GT-I9300); 4.8”	4.0.4
Samsung S-II HD LTE (E120L); 4.65”	4.0.4
Samsung Galaxy Nexus (I9250); 4.65”	4.0.4
Samsung Galaxy Note (GT-N7000); 5.3”	2.3.6 / 4.0.4
Samsung Galaxy Tab (GT-P7300); 8.9”	3.2 / 4.0.4
Samsung Galaxy Tab 2 (P3100); 7”	4.0.3
Samsung Galaxy Tab (GT-P1010); 7”	2.2.1
Sony Xperia Acro S (LT26W); 4.3”	4.0.4
Sony Xperia neo V (MT11i); 3.7”	2.3.4
Sony Tablet S (SGPT111); 9.4”	3.2.1
HTC Incredible S (G11); 4”	4.0.4 / 2.3.5
HTC Sensation (G14); 4.3”	2.3.4
HTC Wildfire S (G13); 3.2”	2.3.5
Google nexus 7; 7”	4.1.1
LG P990 Optimus 2X; 4”	2.3.4
LG P500（Optimus One）; 3.2”	2.2.1
Motorola XT928（DROID RAZR）; (4.5")	4.0.4
Motorola DEFY MB525; 3.7”	2.2.2
Aoson M11-16G; 9.7”	4.0.4

MAINTENANCE

1 Do not expose the unit to dust, strong sunlight, humidity, high temperatures or mechanical shocks.
2 Do not use corrosive or abrasive cleansers on your unit.
3 Keep the unit dust free by wiping it with a soft, dry cloth.
4 Do not disassemble the unit; it contains no user-serviceable parts.

TECHNICAL SPECIFICATIONS

Model no.	BW8432UN (BXT-120)
RF Frequency	2.4GHz
IR Frequency	Up to 455kHz
IR Learning command	No limit
Bluetooth version	3.0
Bluetooth class	Class 2
RF operating distance	Up to 10meters outdoor line of sight, in unobstructed environment
IR operating distance	up to 7meters line of sight, in unobstructed environment
Temperature	Operation: 0 - 40°C Storage: -20 - 60°C
Powered by	USB Power DC 5V 100mA
Dimension	Dia.=70mm, T = 18mm (Main unit) Dia.=70mm, T = 15.5mm (Bottom chassis)
Weight	35g (Bottom chassis excluded) 60g (Bottom chassis included)

CHECKING THE ACCESSORIES

After opening the cover of the packing box, check that the following accessories are included.

- BXT-120 (BT-to-AV IR Extender)
- IR emitter cable x 1pc
- USB cable x 1pc
- BXT-120 User Manual (download from our website)

FCC NOTICE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

LEGAL NOTICE

Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone, or iPad may affect wireless performance.

WARNINGS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- RISK OF FIRE
- RISK OF ELECTRICAL SHOCK
- RISK OF BURNS

- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Use only power supplies listed in the user instructions.

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.

WARRANTY

ONE-YEAR LIMITED WARRANTY: Remotec warrants this product to be free from defects in materials and workmanship under normal use and service for a period of one year from the original date of purchase from the distributor or dealer.

REMOTEC shall not be liable for:

- damages caused by defective devices for indirect, incidental, special, consequential or punitive damages, including, inter alia, loss of profits, savings, data, loss of benefits, claims by third parties and any property damage or personal injuries arising from or related to the use of the device.
- Service trips to provide instruction on product use.
- Shipping costs for replacement products.

This warranty is limited to the repair or replacement of this product only, if the purchase date cannot be substantiated, the warranty period will begin on the date of manufacture as indicated on this product. All warranty claims must be made to Remotec appointed distributors or dealers during the applicable warranty period. This warranty gives you specific legal right and you may also have other rights which vary in each country.